

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/724,972B
Source: 1FW/b
Date Processed by STIC: 3/23/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/23/2006

PATENT APPLICATION: US/10/724,972B

TIME: 09:56:50

Input Set : D:\470407US.APP

Output Set: N:\CRF4\03232006\J724972B.raw

3 <110> APPLICANT: DOUCETTE-STAMM, LYNN
 4 BUSH, DAVID
 6 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
 STAPHYLOCOCCUS

7 EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS

9 <130> FILE REFERENCE: 47040.0007US

11 <140> CURRENT APPLICATION NUMBER: 10/724,972B

12 <141> CURRENT FILING DATE: 2003-12-01

14 <150> PRIOR APPLICATION NUMBER: 09/134,001

15 <151> PRIOR FILING DATE: 1998-08-13

17 <150> PRIOR APPLICATION NUMBER: 60/055,779

18 <151> PRIOR FILING DATE: 1997-08-14

20 <150> PRIOR APPLICATION NUMBER: 60/064,964

21 <151> PRIOR FILING DATE: 1997-11-08

23 <160> NUMBER OF SEQ ID NOS: 7546

25 <170> SOFTWARE: PatentIn version 3.3

27 <210> SEQ ID NO: 1

28 <211> LENGTH: 135

29 <212> TYPE: DNA

30 <213> ORGANISM: Staphylococcus epidermidis

32 <400> SEQUENCE: 1

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35 caatcacaag cttcacactc tatecgaaaa gcttctgttg ctagggagag gtttaaatcg 120

37 gccatttgtg cataa 135

40 <210> SEQ ID NO: 2

41 <211> LENGTH: 510

42 <212> TYPE: DNA

43 <213> ORGANISM: Staphylococcus epidermidis

45 <400> SEQUENCE: 2

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48 agtgatatta tgaaaacttt taaggcagta agatttcaaa ttgtgaatga acatggtgca 120

50 atatcagaat acgtcattga agatggtgtg attataaata aagaaggaag tggcactggg 180

52 tggttactag aatagtaat ttcaaataga cactatgaaa catttaagca atataaggat 240

54 aacaaacaac ttttagatat tagagtagtc atcacaagac ctgctaacga tccagcgta 300

56 tttaatgcaa cagttaaaag cgtaaaaaat tttaaatatt caatgtcagt cgttttagaa 360

58 tgtcacatct acactttgag acaagaatac gctgagagtt tattagaaga attagttgat 420

60 gaaggactta caggtgaaaa gttgaaaaaa acatttaatc gtatgatgca atcaaaacct 480

62 aagttgaaa atgagaaaat cgaaagataa 510

65 <210> SEQ ID NO: 3

66 <211> LENGTH: 135

67 <212> TYPE: DNA

68 <213> ORGANISM: Staphylococcus epidermidis

70 <400> SEQUENCE: 3

71 gataaatcat ctgtattaaa aatatttccg aacacattat ttactgataa aaagaaaaaa 60

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73 actgctaata tgagagcgac aaatcttaac ccccatTTac tttcaagcat ttatgaattc 120
75 acacctttct tttga 135
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 693
80 <212> TYPE: DNA
81 <213> ORGANISM: Staphylococcus epidermidis
83 <400> SEQUENCE: 4
84 gaaaacaaat cacttttagg aggattttta ataatgaaaa aaacattagt tgcacatca 60
86 ttagctatag gactaggcgt tgtagcaggc aacgcaggc atgacgcaca tgcaagtga 120
88 actacaaatg ttgataaagc agagtttagc caaaaagcgt taactaatga tcaatcacta 180
90 aatgaaagcc ctgttcaaga aggtgcttat aatattaatt ttgattacaa tggtaattca 240
92 tatcattttg aatctgatgg ttctacttgg agttggagtt atgaatcaac aaacaatgct 300
94 acgcaacctg ttcaaccaag ccaatctcaa gtagctacac aacaacaacc tgtacaagta 360
96 tcagcaccac aaaatgagca aacagcaca ccacaaaca aatcaacatc tacaagtcaa 420
98 acttcttcaa gttaaagctt aagtggttca tcagtaaag taaattcaca ttacaacaa 480
100 attgctcaac gtgaatcagg tggcgatatt catgcaataa acccatcttc aggtgcagca 540
102 ggtaaatatc aattcttaca atcaacttgg gattctgttg ctccaagtca atataaaggt 600
104 gtttcacctg caaaagctcc agaaagcgta caagaccgag cagcagtaaa attatataat 660
106 actggtggcc caggtcattg ggtaactgca taa 693
109 <210> SEQ ID NO: 5
110 <211> LENGTH: 153
111 <212> TYPE: DNA
112 <213> ORGANISM: Staphylococcus epidermidis
114 <400> SEQUENCE: 5
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117 ttaaaattaa aatgtaagtt attaaaaatt aatgacctaa ataagattgt aacatccaat 120
119 tatgcttatc aactgaagtt tgcattgccga taa 153
122 <210> SEQ ID NO: 6
123 <211> LENGTH: 126
124 <212> TYPE: DNA
125 <213> ORGANISM: Staphylococcus epidermidis
127 <400> SEQUENCE: 6
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130 tttattaatg ctcatgcata taatttaaatt aagcataatg aaccagttga taaatatata 120
132 atttaa 126
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 426
137 <212> TYPE: DNA
138 <213> ORGANISM: Staphylococcus epidermidis
140 <400> SEQUENCE: 7
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143 atttttgaac ctgtaggacc agaacctgta aatgacatca ttcttacttt tggatgttca 120
145 cttaaaggat ttctactcc agatccatca ccattgacta agttaaacac acctttagggt 180
147 acgcctactt tatcaaaaat ttctgctaaa ataattgcag caaatgggtgt ttcttcagat 240
149 ggtttttaaaa caacagggct accagcagca aacgcagcag ctaattttaag tgaagtttgg 300
151 tttgtaggga aattccaagg tgtaacaagt ccagcaactc caattgcttc tttacaacc 360
153 aatcatcgc caggttgctt ttcaattgg aagctatcta aagcatctct tgcagctgta 420
155 aatga 426
158 <210> SEQ ID NO: 8

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Input Set : D:\470407US.APP

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159 <211> LENGTH: 300
160 <212> TYPE: DNA
161 <213> ORGANISM: Staphylococcus epidermidis
163 <400> SEQUENCE: 8
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166 atcctgtaca agctgtgccg aatttcaata tcaggctaca gttaaagctcc acgggggtctt      120
168 tccgtcctgt cgcgggtaac ctgcattctc acaggctacta tgatttcacc gagtctctcg      180
170 ttgagacagt gcccaaatcg ttacgccttt cgtgcgggtc ggaacttacc cgacaaggaa      240
172 ttctgcctacc ttaggaccgt tatagttacg gccgccgttt actgggggctt cgattcgtag      300
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176 <211> LENGTH: 714
177 <212> TYPE: DNA
178 <213> ORGANISM: Staphylococcus epidermidis
180 <400> SEQUENCE: 9
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183 cctattattg atgacattta caatgatggg tttattcaag atttactagc aggtaagtta      120
185 tctaataaag ctgtaagaca atacttaaga gcagacgctt cttattttaa agagtttaca      180
187 aatattttat caatgctcat acccaaatg agttctatgg aagatgttaa atttctagta      240
189 gaacaaattg agtttatggt agaaggagaa gttgaagcgc atgaggttct agctgatttc      300
191 attaataaac catatgaaga aatagtaaaa gaaaaagtat ggccaccaag tggatgatcat      360
193 tatattaaac atatgtactt caatgcattt gcacgtgaaa atgcagcctt cacgattgca      420
195 gcgatggcac cctgtccata cgtctacgct gtcattggta aacgtgcgat ggaagatccc      480
197 aaattaaata aagaatcagt gacttctaaa tggtttcaat tttatagtac tgaaatggac      540
199 gaacttggtg atgtgttcga tcaattgatg gaccgtttta ctaaacattg tagtgagaca      600
201 gaaaaaaaaa agattaaaga aaatttcttg caaagtacta ttcattgagag acatttcttc      660
203 aatatggcat atattaatga aaaatgggaa tatgggggaa ataacaatga ataa          714
206 <210> SEQ ID NO: 10
207 <211> LENGTH: 138
208 <212> TYPE: DNA
209 <213> ORGANISM: Staphylococcus epidermidis
211 <400> SEQUENCE: 10
212 catgtgtcac ctcttcttta tgttctaata ataactgagc ttagttcact ggtcaaaacc      60
214 acaattttat tgaaattggt agtaaataag gatgagattt tgatatattt aaagaaaata      120
216 ttgaagtatt atatctaa
219 <210> SEQ ID NO: 11
220 <211> LENGTH: 1131
221 <212> TYPE: DNA
222 <213> ORGANISM: Staphylococcus epidermidis
224 <400> SEQUENCE: 11
225 acaattacgt taaagaaaaa ggctaaaaga actgtaattg taatggagga aaacgaaatg      60
227 acaaaagaaa atatttgtat cgttttttga ggtaaaagtg cagaacacga tgtttcaatt      120
229 ttaactgcac aaaatgtttt aaacgcaatt gataaagaac gatatcaagt tgatatcatt      180
231 tatataacaa acgatgggtga atggaagaaa aaagataata ttacacaaga aataaaaaat      240
233 actgatgaac tcgtcattaa cgatgtagag actggagaaa tctcacagtt actcagtaaa      300
235 ggtagtttag gaaaatcata tgatgcagta ttcccgttat tgcattggcc aaatggagaa      360
237 gatggaacta tccaaggctt ttttgaagta cttgatatac catatgtagg taatgggtgtg      420
239 ttagctgctt caagctcaat ggataaactc gtgatgaaac aattatttga gcatagagggt      480
241 ttacctcaat taccttatat tagcttttta agaagtgagt atgaaaaata tgaaaaataat      540
243 atcattaagt tagttaatga taagttaaca tatcctgtat ttgtaaaacc tgctaattctc      600

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245 gggttcaagtg ttggtataag taaatgtaac aatgaagaag aattaaaatc tgggatatagct 660
247 gaagcattcc aatttgatcg taaacttgtc attgaacaag ggattaatgc tagagagatc 720
249 gaagtagctg tcttaggtaa cgattatcct gaaacgacat ggcctggtga gggttgtaag 780
251 gatgtagctt tttatgatta taaatcaaag tataaagacg gtaagattag attagatatt 840
253 ccagcagatt tagatcaaga tgttcaaag acattaagaa acatggcatt agaggccttt 900
255 aaagctactg attgttcggg attagttcgt gcagatttct ttgttactga tgataatcaa 960
257 atttatatca atgaaacaaa tgccatgccg ggatttactg catatagtat gtatccaaac 1020
259 ttatggaaaa atatgggctt atcttaccct gatttaattg cttaaattgat tgatttggct 1080
261 aaagaacggt atgaagataa aaagaaaaat aaatataaaa ttgattatta g 1131
264 <210> SEQ ID NO: 12
265 <211> LENGTH: 672
266 <212> TYPE: DNA
267 <213> ORGANISM: Staphylococcus epidermidis
269 <400> SEQUENCE: 12
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272 ctagtaagtc aattaaatga agaacacggt gattttacag ctggtgtacg taaggaagat 120
274 caagttaaag aattagaaaa taaagggatt aaagctacat taatagatgt agaaaaaaat 180
276 agtattaatg atttaaaaaa tatctttaca gattatgata aagttatctt ttcagttgga 240
278 tctggtggaa gcaactggagc ggataaaaca atcattgttg atttagatgg tgctgtaaaa 300
280 acaattaaag ctagtaaaga agcgggtatc aaacattatg ttatggtatc aacatacgat 360
282 tctagacgtg aagcattcga tgcgagtggg gatttaaaac cgtatacaat tgcaaagcat 420
284 tatgctgatg attacttaag aacatcagat cttaattata caattgtaca tccaggttca 480
286 cttacagatg atgctggaac tggaaaaata gaagctgatt tatatttcga caaagcagga 540
288 tcaattccac gtgaagatgt tgctacagtt ttaaaagaag tagtaacttc tgatggtttt 600
290 aataatcaag aattccaaat ttttaagtggc aatcatggtg ttaaagatgc attgaaaaac 660
292 tatgaatctt aa 672
295 <210> SEQ ID NO: 13
296 <211> LENGTH: 243
297 <212> TYPE: DNA
298 <213> ORGANISM: Staphylococcus epidermidis
300 <400> SEQUENCE: 13
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303 cggggttggt tcgtcaaggc ttttgccat tgcggaagat tccctactgc tgcctccgct 120
305 aggagtatgg accgtgtctc agttccagtg ggggcccgat accctctcag gtcggctacg 180
307 catcgttgcc ttggttaagcc gttacettac caactageta atgcggcgcg gatccatcta 240
309 taa 243
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313 <211> LENGTH: 1215
314 <212> TYPE: DNA
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317 <400> SEQUENCE: 14
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320 atagaaaata ataaatatga ttatgtagaa ataagtcac gtattcatga acgcccgtga 120
322 ttaggcaatg aagaaatttt tgcacgaga acattaattg accaattaag agcaaatcga 180
324 ttcgaaatcg aaacggatat tgcaggacat gcaacaggat ttatagcaac gtatgattct 240
326 gatatgactg gaccggttat aggatttcta gctgaatatg atgctttacc tggctcttgg 300
328 cacgcagtcg ggcataatat tattggtact gctagcgtac ttgctgcagt agcactaaaa 360
330 gaagtcgtcg atgaaattgg tggtaaagta gtcgttttgg gatgtcctgc tgaagaaggt 420
332 ggggaaaatg gctccgcaaa agcttcttat gttaaagcag gtgtcattga tgaaattgat 480

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334 gtagcattga tgattcatcc tggaaatgaa acctatcgta caattaatac tttagctgtg      540
336 gatgttctag atattaaatt ctatggacgt agtgcgcgtg catctgaaaa tgcagatgaa      600
338 gcattaaacg ctttagatgc aatgatttca tattttaatg gtatagcaca gttaaggcaa      660
340 cacattaaaa aaggacaacg agttcacggg gttatttttag acggtggtaa agcgggctaact      720
342 attataacctg attttacaca tgcgagattt tatactcgag ctacttcacg gaaagaactt      780
344 gatgttttaa ctgaaaaagt aaaccaaatt gcaagagggtg ctgcgattca aactgggtgt      840
346 gattttgaat ttggctctat ccagaatggt gtaaacgaat ttatcaaagc gcctaaactt      900
348 gatgatttat ttgaaaaata tgcaactgaa ttagggagaag aagtgattga tgatgatttt      960
350 ggttatggat ctacagatac aggtaatgta agtcatgttg taccaactat acatccacat     1020
352 attaaaattg gttctcgaaa tcttgttaga catacccacc gctttagaga agcggctgca     1080
354 agtttacaag gtgatcaggc actcattcga ggtgcaaaaa ttttagcatt aatgggacta     1140
356 gaattaatcg aaaataaacc gttgttagac gaaataattg aagagcatac gcatataaag     1200
358 gggcatgtta agtaa                                           1215
361 <210> SEQ ID NO: 15
362 <211> LENGTH: 1194
363 <212> TYPE: DNA
364 <213> ORGANISM: Staphylococcus epidermidis
366 <400> SEQUENCE: 15
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369 gaaggctctg atgcagcggc attcaatgac gaaggatcac acactttaaa gcatacttta     120
371 gaaggattta agcaaaagt accacatcta gaacaacttg gattaggaaa tattgcaccg     180
373 ctctctgttg tttcaaaagt tacacatcca ggtgcatttt ataccaaact aagtgaagct     240
375 tcagtaggta aggatacaat gactggacat tgggaaatta tgggggttaa tataatgcaa     300
377 ccatttaagg tttatccaaa tgggttccca gaagagcttg ttaaagagat tgaagatatg     360
379 actggacgaa aggttgtagc aaatagacct gcttcaggaa ctacagattat tgacgagtgg     420
381 ggcgaacatc aaatgaaaac tggagattta atagtttata ctagtgtctg tccagtctta     480
383 caaattgctg cacatgaaga cgtgattcca cttgaagaac tttacgagat ttgtgaaaaa     540
385 gttcgtgaac taacaaaaga tcctaaatat ttaataggga gaatcattgc tcgaccatat     600
387 gttggtgaac ctggttaact cactagaact tctaategac atgattacgc gttaaaacca     660
389 tttggacgaa cagtgatgaa tagccttaaa gatagtgggt atgatgtaat cgcgattggt     720
391 aaaattaacg atatttatga cgggtgaaggc gtgacagaag ctatacgta taaaaataat     780
393 atggacggta tggatcaatt gattgaagtt gtaaaaaaag attttgaagg tatcagtttc     840
395 cttaatttag ttgattttga tgcattgtat ggccatcgtc gtgataaaga agggatatgt     900
397 caagcaatta aagattttga tcttcgttta cctgaattaa tgaatcattt aagagaagat     960
399 gatttagtta ttattacagc tgatcatggt aatgatccaa ttgctaaagg tacagatcat     1020
401 acacgtgaat acattccact tttaatgttt agtccgaaaa ttaaagatta tcatgaactt     1080
403 tcacaagaca cgacatttag ctctatcggt gttacaatag cagataactt caacgtagaa     1140
405 ttacctaat atggaaaaag ttatttaaaa gaaatggggg ttgagcatca atga           1194
408 <210> SEQ ID NO: 16
409 <211> LENGTH: 912
410 <212> TYPE: DNA
411 <213> ORGANISM: Staphylococcus epidermidis
413 <400> SEQUENCE: 16
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416 cctttttttt catataaata caatatcaaa attctaataa attttaaat aatatctaac     120
418 ataataagagc acaaaatggt agaatatgct aataagataa cattgaaggg agataatatc     180
420 atgaaatttg ctgttatcac tgatattcat ggaaactttg atgcgcttca aactgtttta     240
422 gatgatattg atagtagaga tgatatcgaa aaaatttata acctaggtga taacataggg     300
424 attggacatg agacaaataa agtactggat actatatttg accgggatga tatggaaatg     360

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:98; N Pos. 1060
Seq#:109; N Pos. 849
Seq#:130; N Pos. 51
Seq#:151; N Pos. 126
Seq#:218; N Pos. 120
Seq#:221; N Pos. 70
Seq#:630; N Pos. 502
Seq#:701; N Pos. 2062
Seq#:792; N Pos. 182
Seq#:1212; N Pos. 509
Seq#:1408; N Pos. 18
Seq#:1802; N Pos. 32
Seq#:1862; N Pos. 8
Seq#:2278; N Pos. 616
Seq#:2419; N Pos. 110
Seq#:2785; N Pos. 498,499,500,501,502,503,504,505,506,507,508,509,510,511
Seq#:2785; N Pos. 512,513,514,515,516,517,518,519
Seq#:2917; N Pos. 995,1000,1014
Seq#:3279; N Pos. 70,76,173
Seq#:3282; N Pos. 174
Seq#:3287; N Pos. 620
Seq#:3534; N Pos. 40
Seq#:3593; N Pos. 57
Seq#:3640; N Pos. 273
Seq#:3677; N Pos. 106
Seq#:3923; Xaa Pos. 42
Seq#:4984; Xaa Pos. 170
Seq#:5634; Xaa Pos. 3
Seq#:6557; Xaa Pos. 167,168,169,170,171,172,173
Seq#:6689; Xaa Pos. 332,334
Seq#:7051; Xaa Pos. 24,26,58
Seq#:7059; Xaa Pos. 207

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7545,7546

VERIFICATION SUMMARY

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Input Set : D:\470407US.APP

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L:2692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:1020
L:2993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:840
L:3624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:0
L:4135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:120
L:6011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:218 after pos.:60
L:6065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:221 after pos.:60
L:19683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:630 after pos.:480
L:21945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:701 after pos.:2040
L:24763 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:792 after pos.:180
L:37139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1212 after pos.:480
L:42584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1408 after pos.:0
L:53636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1802 after pos.:0
L:55489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1862 after pos.:0
L:68424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2278 after pos.:600
L:72267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2419 after pos.:60
L:82000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2785 after pos.:480
L:85419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2917 after pos.:960
L:94751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3279 after pos.:60
M:341 Repeated in SeqNo=3279
L:94821 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3282 after pos.:120
L:94975 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3287 after pos.:600
L:101310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3534 after pos.:0
L:103035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3593 after pos.:0
L:104279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3640 after pos.:240
L:105395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3677 after pos.:60
L:116487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3923 after pos.:32
L:186852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4984 after pos.:160
L:225094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5634 after pos.:0
L:280801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6557 after pos.:160
L:287734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6689 after pos.:320
L:306820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7051 after pos.:16
M:341 Repeated in SeqNo=7051
L:307225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7059 after pos.:192